a rotor rotatably mounted in the stator core, said rotor incorporating a plurality of 2n permanent magnets.

2. (Amended) The compressor of claim 1, wherein said rotor further includes an iron material, said iron material being disposed between each of said permanent magnets.

3. (Amended) A compressor of claim 1,

wherein said plurality of permanent magnets is provided at a larger pitch relative to the stator coil pitch.

4. (Amended) The compressor comprising:

a compression mechanism, for compressing and discharging a refrigerant,

a motor driving said compression mechanism, said motor includes a stator core having a plurality of 3n teeth where n is a natural number, a concentrated winding applied over each one of said plurality of teeth and,

a rotor rotatably mounted in the stator core, the rotor incorporating a plurality of 2n permanent magnets, said plurality of permanent magnets are arranged around a rotor center, at least one of said plurality of permanent magnets has a first end and a second end each having respective surfaces facing said stator core and angled toward each other.

5. (Amended) A compressor comprising:

a1

a compression mechanism, for compressing and discharging a refrigerant,

a motor driving said compression mechanism, said motor includes a stator core having a plurality of 3n teeth where n is a natural number, a concentrated winding applied over each one of said plurality of teeth; and a rotor rotatably mounted in the stator core, said rotor incorporating a plurality of 2n permanent magnets,

said plurality of permanent magnets are arranged around a center thereof, and

at least one of said plurality of permanent magnets has a side facing said stator core which is angled inward towards the center.

6. (Amended) A compressor comprising:

a compression mechanism, for compressing and discharging are frigerant, and

a motor driving said compression mechanism, said motor includes a stator core having a plurality of 3n teeth parts where n is a natural number, a concentrated winding applied over each one of said plurality of teeth parts; and

a rotor rotatably mounted in said stator core, said rotor incorporating a plurality of 2n permanent magnets,

Q7 cancel

a first outer periphery portion of said rotor is different in shape than a second outer periphery portion of said rotor and said second outer periphery portion is positioned in the stator core.

7. (Amended) A compressor of claim 1, further comprising a heat exchanger, wherein

a refrigerating cycle is enabled by the connection of said compressor and said heat exchanger for forming an air-conditioning device.

8. (Amended) The compressor of claim 1, further comprising a heat exchanger, wherein

a refrigerating cycle is enabled by the connection of said compressor and said heat exchanger for forming an air-conditioning device.

9. (Amended) The compressor of claim 1, wherein said plurality of permanent magnets are formed in groups of plural layers, with ends of at least two layers being adjacent to an outer circumference of the stator core.

Please add the following new claims:

Q8

10. (Newly Added) The compressor of claim 1, wherein an interval "d" between the ends of each one of the plurality of teeth is smaller than the width of the winding.

11. (Newly Added) The compressor of claim 1, wherein end portions of the adjacent magnets face each other.

12. (Newly Added) The compressor of claim 1, wherein said refrigerant includes HFC (Hydro-Fluoro-Carbon).

13. (Newly Added) The compressor of claim 1, wherein said refrigerant includes a carbon dioxide.

14. (Newly Added) The compressor of claim 1, wherein said refrigerant includes HC (Hydro-Carbon).

Respectfully submitted,

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Kathleen Libby